



SEQUENCE LISTING

<110> Presta, Leonard G.
Snedecor, Bradley R.

<120> ALTERED POLYPEPTIDES WITH INCREASED HALF-LIFE

<130> 11669.161USC1

<140> US 09/628,568

<141> 2000-07-31

<150> US 08/422,112

<151> 1995-04-14

<160> 31

<170> PatentIn version 3.3

<210> 1

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Sequence comprising a salvage receptor binding epitope

<400> 1

His Gln Asn Leu Ser Asp Gly Lys

1 5

<210> 2

<211> 8

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<213> Artificial Sequence

<220>

<223> Sequence comprising a salvage receptor binding epitope

<400> 2

His Gln Asn Ile Ser Asp Gly Lys

1 5

<210> 3

<211> 11

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<213> Artificial Sequence

<220>

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<400> 3

Pro Lys Asn Ser Ser Met Ile Ser Asn Thr Pro

1 5 10

<210> 4
<211> 98
<212> PRT
<213> Homo sapiens

<400> 4

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys
1 5 10 15

Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
20 25 30

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
35 40 45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
50 55 60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
65 70 75 80

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
85 90 95

Arg Val

<210> 5
<211> 98
<212> PRT
<213> Homo sapiens

<400> 5

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg
1 5 10 15

Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
20 25 30

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
35 40 45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
50 55 60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Asn Phe Gly Thr Gln Thr

65 70 75 80

Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys
85 90 95

Thr Val

<210> 6
<211> 98
<212> PRT
<213> Homo sapiens

<400> 6

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg
1 5 10 15

Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
20 25 30

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
35 40 45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
50 55 60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr
65 70 75 80

Tyr Thr Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys
85 90 95

Arg Val

<210> 7
<211> 98
<212> PRT
<213> Homo sapiens

<400> 7

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg
1 5 10 15

Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
20 25 30

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
35 40 45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
50 55 60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Lys Thr
65 70 75 80

Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys
85 90 95

Arg Val

<210> 8
<211> 107
<212> PRT
<213> Homo sapiens

<400> 8

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu
1 5 10 15

Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe
20 25 30

Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln
35 40 45

Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser
50 55 60

Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu
65 70 75 80

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser
85 90 95

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys
100 105

<210> 9
<211> 105
<212> PRT
<213> Homo sapiens

<400> 9

Gln Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser Glu
1 5 10 15

Glu Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp Phe
20 25 30

Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro Val
35 40 45

Lys Ala Gly Val Glu Thr Thr Pro Ser Lys Gln Ser Asn Asn Lys
50 55 60

Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys Ser
65 70 75 80

His Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val Glu
85 90 95

Lys Thr Val Ala Pro Thr Glu Cys Ser
100 105

<210> 10

<211> 100

<212> PRT

<213> Artificial Sequence

<220>

<223> Humanized Fab v1b variant

<400> 10

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Pro Lys
1 5 10 15

Asn Ser Ser Met Ile Ser Asn Thr Pro Ala Leu Gly Cys Leu Val Lys
20 25 30

Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu
35 40 45

Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu
50 55 60

Tyr Ser Leu Ser Ser Val Val Thr Val Pro His Gln Ser Leu Gly Thr
65 70 75 80

Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val
85 90 95

Asp Lys Arg Val
100

<210> 11
<211> 7
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<213> Artificial Sequence

<220>
<223> Sequence comprising a salvage receptor binding epitope

<400> 11

His Gln Ser Leu Gly Thr Gln
1 5

<210> 12
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide

<400> 12
gtgaccgtgc ctcaccagag cttgggcac

29

<210> 13
<211> 53
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide

<400> 13
tggcaccctc ccctaagaac tcgagcatga tcagcaacac accggccctg ggc

53

<210> 14
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Constant region sequence

<400> 14

Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala
1 5 10

<210> 15
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Sequence comprising a salvage receptor binding epitope

<400> 15

Ser Pro Lys Asn Ser Ser Met Ile Ser Asn Thr Pro Ala
1 5 10

<210> 16
<211> 34
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide

<400> 16
tggcaccctc caaatcgagc atcacagcgg ccct 34

<210> 17
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Constant region sequence

<400> 17

Ser Ser Lys Ser Thr Ser Gly Gly Thr
1 5

<210> 18
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> Constant region sequence

<400> 18

Ser Lys Ser Ser Ile Thr
1 5

<210> 19
<211> 44
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide

<400> 19
tggtgaccgt gatctcgagc cacttgggcc agcagaccta catc 44

<210> 20
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Constant region sequence

<400> 20

Val Pro Ser Ser Ser Leu Gly Thr Gln
1 5

<210> 21
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Sequence comprising a salvage receptor binding epitope

<400> 21

Val Ile Ser Ser His Leu Gly Gln Gln
1 5

<210> 22
<211> 45
<212> PRT
<213> Artificial Sequence

<220>
<223> Hinge region sequence including a Leucine Zipper

<400> 22

Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Arg Met Lys Gln
1 5 10 15

Leu Glu Asp Lys Val Glu Glu Leu Leu Ser Lys Asn Tyr His Leu Glu
20 25 30

Asn Glu Val Ala Arg Leu Lys Lys Leu Val Gly Glu Arg
35 40 45

<210> 23
<211> 28
<212> DNA

<213> Artificial Sequence

<220>

<223> Oligonucleotide

<400> 23
tcgagcatga tctctagaac accggccc 28

<210> 24

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<223> Oligonucleotide

<400> 24
gcctcaccag aacctaggca ccaagaccta catctg 36

<210> 25

<211> 40

<212> DNA

<213> Artificial Sequence

<220>

<223> Oligonucleotide

<400> 25
gcctcaccag aacttaagcg acggaaagac ctacatctgc 40

<210> 26

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Constant region sequence

<400> 26

Gln Ser Leu Gly Thr Gln Thr
1 5

<210> 27

<211> 8

<212> PRT

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<223> Sequence comprising a salvage receptor binding epitope

<400> 27

Gln Asn Leu Ser Asp Gly Lys Thr
1 5

<210> 28
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide

<400> 28
gcctcaccag aatattacag atggcaagac ctacatctgc

40

<210> 29
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Constant region sequence

<400> 29

Gln Ser Leu Gly Thr Gln Thr
1 5

<210> 30
<211> 8
<212> PRT
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<400> 30

Gln Asn Ile Ser Asp Gly Lys Thr
1 5

<210> 31
<211> 8
<212> PRT
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<220>
<223> Sequence comprising a salvage receptor binding epitope

<400> 31

Val Ile Ser Ser His Leu Gly Gln
1 5